

**March 12-13, 2014**  
**Boulder, Colorado**

**Present:** Jeff Ryan, Lisa Ely, David Schmidt, Holy Taylor, Meghan Miller, Donna Charlevoix, Aisha Morris, Shelley Olds, Beth Bartel, Melissa Weber, Beth Pratt-Sitaula

**Phone:** Steve Semken, John Taber, Lina Patino.  
Via phone March 13 only: Josh Roering, Becca Walker, Bruce Douglas

### Agenda Items

- I. Review of Agenda, Approval of Minutes – J. Ryan
- II. Summary of 2013 ECE Accomplishments – D. Charlevoix
- III. Reports from EarthScope National Office and IRIS – S. Semken, J. Taber
- IV. Overview of Implementation Plan, Objectives & Metrics – D. Charlevoix
  - a. Training
  - b. Education Materials
  - c. Community Communications
  - d. Geo Workforce Development
- V. Discussion: Community Collaborations to Support UNAVCO ECE Objectives

### J. Ryan opens meeting at 3:20p MDT

#### I. Review of Agenda, Approval of Minutes– J. Ryan

D. Schmidt moves to approve the minutes, L. Ely seconds. Committee votes to approve.

#### II. Summary of 2013 ECE Accomplishments – D. Charlevoix

An NSF supplement to the GAGE facility Cooperative Agreement was submitted March 3 in response to the Dear Colleague Letter: Advancing Recruitment and Retention in Geosciences. The supplement would fund the RESESS program covering intern costs only.

ECE will have three summer interns to help with the GETSI curriculum project, aligning learning materials to the Next Generation Science Standards (NGSS) and developing outreach materials for PBO.

#### Professional Development and Training – D. Charlevoix

Two short courses at the UNAVCO Science Workshop were highly successful. Several technical short courses are planned for summer and four course proposals have been submitted to GSA for the fall meeting.

#### Education Materials – S. Olds/B. Pratt-Sitaula

The NSF-TUES (Transforming Undergraduate Education in Science, Technology, Engineering and Mathematics) award to develop undergraduate curriculum is moving apace. GETSI (Geodetic Tools for Societal Issues) completed a PI kickoff meeting in February and plans two modules this year.

#### Communications – B. Bartel

Communications activities include social media, museum exhibit at Hatfield Marine Science Center, UNAVCO website reorganization and updating, and outreach materials focused on PBO.

#### GEO-Workforce Development – A. Morris

In January an EOS publication focused on the successes of RESESS. Recently, A. Morris represented UNAVCO at several workshops focusing on broadening participation in undergraduate geoscience programs.

***ACTION** – A. Morris to send EOS publication to L. Patino*

UNAVCO received two donations from the ExxonMobil Foundation to support RESESS student scholarships (primarily travel).

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RESESS program: Offers have been extended to students. The 2014 cohort includes a military veteran and single mother. Two students will participate on a shifted summer schedule to accommodate their quarter system academic program.

### III. Reports from EarthScope National Office and IRIS – S. Semken, J. Taber

#### EARTHSCOPE NATIONAL OFFICE – S. SEMKEN

ESNO will share a booth with UNAVCO at the U.S. Science and Engineering Festival in Washington, DC 25-27 April. The Next EarthScope Interpretive Workshop is in Anchorage AK, 27-29 April followed by a teacher workshop on Saturday 3 May.

Plans are underway for the EarthScope Decade Symposium: Washington DC, 15 May. There will be a presentation on EarthScope education and outreach activities.

<http://www.earthscope.org/information/meetings-events/other/earthscope-symposium-and-reception>

The EarthScope 2014-2015 Speaker Series is in the planning stage. If you have suggestions for speaker, please email S. Semken.

The EarthScope social media outreach effort is having continued success. Currently, the ESNO is active on six different social media platforms; Facebook, Twitter, YouTube, Pinterest, LinkedIn and Google+.

***ACTION:** B. Pratt-Sitaula and S. Semken will connect offline to discuss increasing registration for the Alaska Interpretive workshop. B. Bartel will reach out to Max Enders in the Alaska office.*

#### IRIS – J. TABER

Interns/Workforce: Minority speaker series included reaching nine different schools. IRIS internship program received 98 applications for 13 internship positions this summer.

Upcoming meetings for IRIS: NSTA booth, NAGT Eastern Section, EarthScope Decadal Celebration, GSA workshop, REU meeting Bozeman, Montana.

***ACTION:** S. Olds, S. Semken and J. Taber to speak offline regarding NSTA booth*

***ACTION:** L. Patino asks J. Taber to please send information on their application pool based on the speaker series – the before and after effects.*

**Meeting adjourns for the evening at 5:40pm**

**Date: Thursday, March 13, 2014**

**IV. Overview of Implementation Plan, Objectives & Metrics – D. Charlevoix and ECE Team**

A draft of the ECE logic model and implementation plan was shared with the committee. Discussion focused around improving the logic model and focusing the implementation plan. Metrics and evaluation were discussed as was the process of reporting to NSF.

***ACTION:** D. Charlevoix to send L. Patino quarterly GAGE reports*

For each area of work focus, staff review the performance measures and objectives and ask the committee to help with objectives and how well they align with UNAVCO and NSF strategic plans. Committee suggestions are outlined below.

**Training / Professional Development**

Committee suggestions:

- Consider a formal strategy to bring new instructors to short courses.
- It would help to identify some measure of scale that would be helpful in many ways, financially, resource support etc. Establish a baseline, set the target. It would also be good to recognize if there is a shift, and work that into the performance measures.
- UNAVCO ECE could be more proactive in developing broader impacts in the community.
- UNAVCO has a good community of users, and should consider gathering info on what they are doing with the training materials available on the website and find out how they can use them more effectively.
- Reach out to the community to creatively engage a broader group and expand capacity: create an app, engage with EarthCube, explore social network focused on tools

**Education Materials**

Committee suggestions:

- For small enhancements to GETSI, or other geodesy education projects, reach out to NSF program officers regarding funding.
- The museum exhibit at Hatfield should be explored as a traveling exhibit. Find a partner that can help “move” things. Most museums pay to have the display come to them.
- Consider reaching out to NAGT, In the Trenches to develop a feature article on teaching materials available.
- The NAGT Geo 2 year college newsletter is a great forum for sharing information and getting the word out to faculty.
- Focus efforts on things that are highly visible to students and for UNAVCO benefit. Aim to get more visibility for UNAVCO publicly.

**Community Communications**

Committee suggestions:

- Consider linking animations to curricular materials and have faculty test and implement.
- Connect with organizations that may be involved in 2018.
- Use multiple means to solicit information about community publications referencing/utilizing UNAVCO (email, social media, etc.)

**Geo-Workforce Development**

Committee suggestions:

- Other groups to potentially connect with include: Elizabeth City State University and Jackson State University, Earth Science Women’s Network (ESWN), SACNAS, Civil Engineers, Society of Women Engineers (SWE), The International Association for Geoscience Diversity
- Look to industry for funding (Regal, Trimble, etc.)
- Explore NSF-IUSE awards; spend some time researching things that have been funded through it and see if can extend this to RESESS.

- Try blending models, asking for funding for students “every dollar you give goes into student internship”

**V. Discussion: Community collaborations to support UNAVCO ECE objectives**

Committee suggestions:

Make sure activities are well aligned with strategic plans. Think carefully of paths of least resistance. Of the different opportunities out there, which would ramp up most efficiently and what makes most sense going forward.

Think carefully about what metrics are most important to you.

Partner whenever possible.

Postdocs are fairly common in the geodetic community and they’re a potentially great resource for community building and mentoring. A postdoc representative to this group could be useful to gather input from the community and help facilitate activities.

IRIS would be willing to be a partner if UNAVCO would want to go towards seismology.

ECE Team adjourns at 3:20pm

Executive Session: 3:20 – 4:10. No notes taken.

Meeting adjourns at 4:10pm